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L1: Entry 1 of 1

File: USPT

Dec 3, 2002

DOCUMENT-IDENTIFIER: US 6490563 B2

TITLE: Proofreading with text to speech feedback

US Patent No. (1):
6490563Brief Summary Text (6):

Another text editing module in common use foremost Asian languages is a converter system that converts phonetic symbols to a selected language. Such a text editing module is often referred as IME (Input Method Editor) in "WINDOWS-95" or "WINDOWS NT" operating systems sold by Microsoft Corporation of Redmond, Wash. The phonetic symbols can be provided to a computer using a standard keyboard. The computer includes a converter module that converts the phonetic symbols to the selected language. For example, it is common to form Japanese text in a computer system by entering phonetic characters from an English or Latin keyboard. Inputting Japanese phonetic characters using the letters of the Latin alphabet is called "Romaji". The computer system compares each of the Romaji characters with a stored dictionary and produces a "Kana" sequence ("Kanas"). Kanas are Japanese syllabic symbols which represent the sound of Japanese. The IME converter then converts the Kana form into "Kanji" form, which is a formal Japanese writing language, through sophisticated linguistic analysis. (The formal Japanese writing system actually consists of a mixture of Kanjis and Kanas, where the Kanjis represent most of the content information and bear no direct information about pronunciation.)

Detailed Description Text (6):

A number of program modules can be stored on the hard disk, magnetic disk 59, optical disk 61, ROM 54 or RAM 55, including an operating system 65, one or more application programs 66, other program modules 67, and program data 68. A user can enter commands and information into the personal computer 50 through input devices such as a keyboard 70, a handwriting tablet 71, a pointing device 72 and a microphone 92. Other input devices (not shown) can include a joystick, game pad, satellite dish, scanner, or the like. These and other input devices are often connected to the processing unit 51 through a serial port interface 76 that is coupled to the system bus 53, but can be connected by other interfaces, such as a sound card, a parallel port, a game port or a universal serial bus (USB). A monitor 77 or other type of display device is also connected to the system bus 53 via an interface, such as a video adapter 78. In addition to the monitor 77, personal computers typically include other peripheral output devices such as a speaker 83 and a printer (not shown)..

Detailed Description Text (37):

Conversion of Kana and Kanji string to speech for proofreading feedback can be performed automatically when a predetermined quantity of kanas (or Romajis) have been entered by the user. Alternatively, conversion can take place when a selected key, such as a "space" key (for example, in Microsoft IME97 system, a "space" key will trigger the Kana->kanji conversion which is very natural, and which can also be used to initiate audio feedback playback), has been operated by the user or selected punctuation marks, such as periods ("MaRu" in Japanese have been entered. Although described above with respect to the Kana IME system in the Japanese language, it should be understood that this aspect of the present invention is well suited for other languages such as Chinese, Hindi, Korean or any other language where homonyms are present and conversion errors can take place. Particularly in the case of Chinese, there is almost no effective means of detecting typing or conversion errors because neither explicit word boundaries nor semantic separators (like Kana) are presented. The audio feedback provides effective and efficient means to detect typing or conversion

errors for the two most popular Chinese input methods: Pinyin and Wu-Bi IME's. Since Pinyin IME is not composed of tones and Wu-Bi is a stroke-based IME, typing or conversion errors will almost definitely generate different perceived sound and therefore become highly noticeable. However, this aspect of the present invention is also well suited for any language, such as English, described above, where the system can be useful in detecting input errors entered by the user.

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L2: Entry 1 of 1

File: USPT

May 6, 2003

DOCUMENT-IDENTIFIER: US 6560559 B2

TITLE: System and method for detecting and correcting incorrect hand position of a computer user

US Patent No. (1):
6560559Detailed Description Text (8):

Referring to FIG. 2C, step 295 generates a visible warning indicating a potential presence of incorrect hand positions. The visible warning may be comprised of a message on display 180 indicating the presence of an incorrect word, etc. Step 297 then generates an audible warning of the incorrect hand position. The audible warning may be any suitable sound generated by speaker 165. It is noted that the generation of an audible warning is preferred because often times typing is performed while not looking at what is displayed.

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